To:	RNATIONAL SEAF	TOTING AST		PCT				
5 c	see form I	PCT/ISA/220	EINGANG/RECEIVED	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)				
			1 0, Wärz 2005  Gewordt Hochtsschutz/ Intellocted Property ALTANA Pharma AG	Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)			
1	icant's or agent's file form PCT/ISA/22		ALTAINATHAMA	FOR FURTHER A See paragraph 2 below				
1	national application I I/EP2004/05237		International filing date (day/month/year) 30.09.2004		Priority date (day/month/year) 01.10.2003			
1	International Patent Classification (IPC) or both national classification and IPC C07D471/04, A61K31/437, A61K31/444, A61P25/00, A61P29/00, A61P31/00							
1 ' '	Applicant ALTANA PHARMA AG							
1.	Box No. I  Box No. II  Box No. III  Box No. IV  Box No. V  Box No. V  Box No. VI  Box No. VII	Box No. II Priority  Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  Box No. IV Lack of unity of invention  Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  Box No. VI Certain documents cited  Box No. VII Certain defects in the international application  Box No. VIII Certain observations on the international application						
3.	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCT/ISA/220.							

Name and mailing address of the ISA:



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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/052373

				2000
			<u></u>	APORECE NOTE 24 MAR 2006
	Вох	No.	o.I E	Basis of the opinion
1.	With the	n reg lanç	gard to guage	the <b>language</b> , this opinion has been established on the basis of the international application in in which it was filed, unless otherwise indicated under this item.
		lan	nguage	tion has been established on the basis of a translation from the original language into the following , which is the language of a translation furnished for the purposes of international search ules 12.3 and 23.1(b)).
2.	Witl nec	h reg	gard to	any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and the claimed invention, this opinion has been established on the basis of:
	a. ty	уре	of mai	terial:
	(		a seq	uence listing
	0		table(	s) related to the sequence listing
	b. format of material:			
	[		in writ	tten format
	[		in cor	mputer readable form
c. time of filing/furnishing:				g/furnishing:
	1		conta	ined in the international application as filed.
	[		filed t	ogether with the international application in computer readable form.
	ı		furnis	hed subsequently to this Authority for the purposes of search.
3.		ha co	as beer opies is	on, in the case that more than one version or copy of a sequence listing and/or table relating thereto in filed or furnished, the required statements that the information in the subsequent or additional identical to that in the application as filed or does not go beyond the application as filed, as ate, were furnished.
4.	Add	ditio	nal co	mments:

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/052373

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:							
	the entire international application,						
$\boxtimes$	claims Nos. 14,15 with respect to IA						
because:							
$\boxtimes$	the said international application, or the said claims Nos. 14,15 relate to the following subject matter which does not require an international preliminary examination (specify):						
	see separate sheet						
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):						
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.						
	no international search report has been established for the whole application or for said claims Nos.						
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:						
	the written form		has not been furnished				
			does not comply with the standard				
	the computer readable form		has not been furnished				
			does not comply with the standard				
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.						
	See separate sheet for further	deta	ils				

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-15

No: Claims

Inventive step (IS)

Yes: Claims

1-15

No: Claims

Industrial applicability (IA)

Yes: Claims

1-13

No: Claims

2. Citations and explanations

see separate sheet

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/EP2004/052373

1APZOREC'O TOTATO 24 MAR 2006

#### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 14 and 15 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following document is referred to in this communication:

D1: WO 00/49015 A (TAKE KAZUHIKO ;FUJISAWA PHARMACEUTICAL CO (JP); TOMISHIMA MASAKI () 24 August 2000 (2000-08-24)

#### **Novelty and Inventive step**

1) Document D1, which is considered to represent the most relevant state of the art, discloses **pyridine compounds** which are linked to a heterocyclic group such as a **benzimidazolyl group**. The compounds are having an inhibitory activity on the production of nitric oxide and are useful for the prevention and/or treatment of NOS (nitric oxide synthase)-mediated diseases.

From this, the subject-matter of the present claims differs in that the present application deals with **pyridin-2-yl-alkylene-3H-imidazo[4,5-b]pyridine** derivatives, which compounds are also having an inhibitory activity on the production of nitric oxide and are useful for the prevention and/or treatment of NOS (nitric oxide synthase)-mediated diseases.

The subject-matter these claims is therefore novel (Article 33(2) PCT)

2) The problem to be solved by the present invention may be regarded as the provision of further compounds that are having an inhibitory activity on the production of nitric oxide and are useful for the prevention and/or treatment of NOS (nitric oxide synthase)-mediated diseases.

The solution to this problem proposed in the claims of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: The present specifically substituted **imidazo[4,5-b]pyridine** derivatives of formula (I) are structurally very remote from any of the available prior art compounds having the same use and it is therefore considered that there were no incentives from this prior art to use the above described **pyridin-2-yl-alkylene-3H-imidazo[4,5-b]pyridine** derivatives as nitric oxide synthase inhibitors.

3) The statements in the description on page 23, sixth paragraph, implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them.

#### Industrial applicability

4) For the assessment of the present claims 14 and 15 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.